

ThinkPad X1 Carbon (4th Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor							
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD Graphics 520
	i5-6300U			2.4 GHz	3.0 GHz	3MB		
	i7-6500U			2.5 GHz	3.1 GHz	4MB		
i7-6600U	2.6 GHz			3.4 GHz	4MB			
Graphics	Intel HD Graphics 520 in processor, external digital monitor support via Mini DisplayPort or HDMI™; supports three independent displays; Max resolution: 3840x2160 (Mini DisplayPort) @60Hz; 4096x2304 (HDMI) @24Hz							
Chipset	Intel SoC (System on Chip) platform							
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets							
Display	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle <i>Some:</i> 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle							
Multi-touch	None							
Hinge	Normal hinge, 180 degree							
Storage	<i>Some:</i> M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)							
Optical	None							
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter (by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro))							
WLAN ⁴	<i>One of the following, configurable by model (WiGig is mutually exclusive with WWAN):</i> <ul style="list-style-type: none">11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 cardWiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card							
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter							
WWAN (optional)	<i>One of the following, configurable by model (mutually exclusive with WiGig):</i> <ul style="list-style-type: none">Wireless WAN upgradableWireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 cardWireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)							
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card							
Dimensions ³	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm							
Weight ²	Starting at 2.579 lb / 1.17 kg							
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium							
Media reader	MicroSD card reader, supports UHS-II microSD card							
Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector							
WiGig dock (opt)	WiGig dock, mutually exclusive with WWAN							
Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Cable							
Adapter (optional)	mDP to VGA: Lenovo Mini DisplayPort to VGA Monitor Cable OneLink+ to RJ45: ThinkPad OneLink+ to RJ45 adapter OneLink+ to VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter							
Camera	HD720p resolution, low light sensitive, fixed focus							
Audio support	HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack							
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight							
UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch							
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch							
Security chip	Discrete TPM 1.2 TCG Certified and Firmware TPM 2.0 integrated in chipset							
ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures							
vPro (optional)	Intel vPro Technology							
Fingerprint reader	Touch style fingerprint reader on the palm rest							
Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery							
Max battery life ¹⁰	MobileMark® 2014: 11 hr							
AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter							
RapidCharge	AC adapter	45W	65W Slim	65W				
	Charge to 80%	Not support	1.0 hr	1.0 hr				
	Charge to 100%	Not support	2.5 hr	2.5 hr				
Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <ul style="list-style-type: none">Lenovo Solution CenterThinkVantage Product RecoveryRescue and Recovery™ThinkVantage System UpdateAdobe® Reader®Microsoft® Office preloaded; purchase a product key to activateMcAfee® LiveSafe™ (30-day trial)				Windows 10 Pro 64 <ul style="list-style-type: none">Lenovo Solution CenterLenovo CompanionLenovo SettingMicrosoft Office preloaded; purchase a product key to activateMcAfee® LiveSafe™ (30-day trial)			
Limited warranty ¹²	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none">1-year depot repair service3-year/1-yr battery depot repair service3-year/1-yr battery limited onsite service²⁴3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)							
Mil-Spec test	MIL-STD-810G military certification							
Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant							